

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An image display apparatus comprising:

an imaging section which is formed as a charge-coupled device (CCD) imaging device and converts an optical image to first signals representing the image,

said imaging section including:

photoelectronic conversion devices arranged in the form of a matrix formed by lines and columns for converting the optical image to signal charges,

vertical transfer paths arranged adjacent to the respective columns of said photoelectronic conversion devices, each of said vertical transfer paths transferring the signal charges toward one end in accordance with vertical driving pulses,

transfer gates for transferring the signal charges generated by said photoelectronic conversion devices to the respective vertical transfer paths in accordance with field shift pulses, and

output circuits for converting the signal charges arrived at the one end of said vertical transfer paths to the first

signals and outputting the first signals in parallel column by column of said matrix, ~~such that~~ from said imaging section ~~outputs the first signals without horizontally transferring the signal charges provided by said vertical transfer paths; and~~

a display section which displays the image represented by the first signals,

said display section including:

display devices arranged in the form of a matrix, each of said display devices having an image signal input terminal and a control signal input terminal, and displaying the image represented by first signals applied to the image signal input terminal at the time of application of driving pulses to the control signal input terminal,

input circuits comprising signal buses for receiving the first signals from said imaging section ~~in parallel column by column~~ and outputting second signals corresponding to the received first signals to the image signal input terminals ~~over signal buses~~ in parallel column by column of said matrix, and

a vertical driving circuit for outputting the driving pulses to the control signal input terminals over control buses line by line of said matrix in a predetermined order.

2. (Canceled).

3. (Original) The image display apparatus according to claim 1, wherein said display section comprises a liquid crystal display.

4. (Currently Amended) An image display apparatus comprising:

an imaging section which is formed as a charge-coupled device (CCD) imaging device and converts an optical image to first signals representing the image,

said imaging section including:

photoelectronic conversion devices arranged in the form of a matrix formed by lines and columns for converting the optical image to signal charges,

vertical transfer paths arranged adjacent to the respective columns of said photoelectronic conversion devices, each of said vertical transfer paths transferring the signal charges toward one end in accordance with vertical driving pulses,

transfer gates for transferring the signal charges generated by said photoelectronic conversion devices to the respective vertical transfer paths in accordance with field shift pulses, and

output circuits for converting the signal charges arrived

at the one end of said vertical transfer paths to the first signals and outputting the first signals in parallel column by column of said matrix, ~~such that~~ from said imaging section ~~outputs the first signals without horizontally transferring the signal charges provided by said vertical transfer paths;~~

a signal conversion section for performing a processing on the first signals output from said imaging section in parallel column by column and outputting processed signals as second signals in parallel; and

a display section which displays the image represented by the second signals,

said display section including:

display devices arranged in the form of a matrix, each of said display devices having an image signal input terminal and a control signal input terminal, and displaying the image represented by the second signals applied to the image signal input terminal at the time of application of driving pulses to the control signal input terminal,

input circuits comprising signal buses for receiving the second signals from said signal conversion section ~~in parallel~~ and outputting third signals corresponding to the received second signals to the image signal input terminals ~~over signal buses~~ in parallel column by column of said matrix, and

a vertical driving circuit for outputting the driving pulses to the control signal input terminals over control buses line by line of said matrix in a predetermined order.

5. (Canceled).

6. (Original) The image display apparatus according to claim 4, wherein said display section comprises a liquid crystal display.

7. (Previously Presented) The image display apparatus according to claim 4, further comprising:

a parallel-to-serial conversion section for converting the second signals to serial signals.

8. (Currently Amended) An image display apparatus comprising:

an imaging section which is formed as a charge-coupled device (CCD) imaging device and converts an optical image to first signals representing the image,

said imaging section including:

photoelectronic conversion devices arranged in the form of a matrix formed by lines and columns for converting the optical

image to signal charges,

vertical transfer paths arranged adjacent to the respective columns of said photoelectronic conversion devices, each of said vertical transfer paths transferring the signal charges toward one end in accordance with vertical driving pulses,

transfer gates for transferring the signal charges generated by said photoelectronic conversion devices to the respective vertical transfer paths in accordance with field shift pulses, and

output circuits for converting the signal charges arrived at the one end of said vertical transfer paths to the first signals and outputting the first signals in parallel column by column of said matrix, ~~such that~~ from said imaging section ~~outputs the first signals without horizontally transferring the signal charges provided by said vertical transfer paths;~~

a signal conversion section for performing a processing on the first signals output in parallel from said imaging section column by column and outputting processed signals as second signals in parallel; and

a parallel-to-serial conversion section for converting the second signals to serial signals.

9. (Canceled).

10. (Currently Amended) A display apparatus comprising:

a serial-to-parallel conversion section for converting first signals serially input thereto and representing an image to parallel second signals and outputting the second signals;

a signal conversion section for performing a processing on the second signals output in parallel from said serial-to-parallel conversion section column by column and outputting processed signals as third signals in parallel; and

a display section which displays the image represented by the third signals,

said display section including:

display devices arranged in the form of a matrix, each of said display devices having an image signal input terminal and a control signal input terminal, and displaying the image represented by third signals applied to the image signal input terminal at the time of application of driving pulses to the control signal input terminal,

input circuits comprising signal buses for receiving the third signals from said signal conversion section ~~in parallel~~ and outputting fourth signals corresponding to the received third signals to the image signal input terminals ~~over signal buses~~ in parallel column by column of said matrix, and

a vertical driving circuit for outputting the driving pulses to the control signal input terminals over control buses line by line of said matrix in a predetermined order.

11. (Original) The display apparatus according to claim 10, wherein said display section comprises a liquid crystal display.

12. (Previously Presented) The image display apparatus according to claim 2, wherein said imaging section comprises a CCD imaging device with no horizontal transfer path.

13. (Previously Presented) The image display apparatus according to claim 5, wherein said imaging section comprises a CCD imaging device with no horizontal transfer path.

14. (Previously Presented) The image display apparatus according to claim 9, wherein said imaging section comprises a CCD imaging device with no horizontal transfer path.